From:	Charles Nace
To:	Angela Carpenter
Cc:	Arlene Anderson; Denise Zeno; Mel Hauptman; Michael Moltzen; Michael Sivak; Rebecca Ofrane
Subject:	Re: Cabo Rojo Results - Feb 27-Mar 1sampling
Date:	03/13/2012 08:12 AM

Angela,

It depends on the rules that are being followed to determine if something is removal eligible. If we are following the rule of elevated subslab and indoor air above 10-4 or a HI of 3, then no it is not removal eligible. If we follow the rule of elevated subslab and indoor air above 10-4 or a HI of 1, then one building is removal eligible, but just barely.

For the EQP/Headstart building, the highest PCE concentration in the subslab is 756,000 ug/m3 and the highest indoor air PCE concentration is 47.5 ug/m3, just above our non-cancer screening value of 41 ug/m3. The location of the 47.5 ug/m3 value is from the section of the building that houses the printing shop. The screening value at a HI of 3 would be 123 ug/m3, so we are below that value.

We also have methylene chloride above a 10-4 value (detected 600 ug/m3 and the 10-4 cancer screening value is 520 ug/m3), but the highest subslab concentration is only 103 ug/m3 and the rest are less than 17 ug/m3 or non-detect. Both of these samples are also from the print shop.

Additionally, we have four locations in the print shop that have 1,2,4-trimethylbenzene at indoor air concentrations above a HI of 1. The screening value is 7.3 ug/m3 and we have values ranging from 45 to 450 ug/m3, so we are also above a HI of 3 (21.9 ug/m3). The highest subslab concentration is 130 ug/m3, with another value at 27.8 ug/m3 and the remaining eight samples near or below the detection limit.

I am not sure what ATSDR's interpretation of the data will be. The screening value they are using for PCE is 0.2 ug/m3. Our detection limit was 0.473 ug/m3 so theoretically even our non-detects could be above their screening value. I also do not know what screening value they would use for the other two chemicals.

So, I think the bottom line is that based on the sampling results, there are no elevated indoor air concentrations in the Headstart side of the building, but there are elevated indoor air concentrations of PCE, methylene chloride, and 1,2,4-trimethylbenzene in the print shop. There are also elevated subslab concentrations of PCE and 1,2,4-trimethylbenzene. I think that it is removal eligible for 1,2,4-trimethylbenzene and possibly for PCE, so a system could be installed. This would be a proactive action since the Headstart section of the building does not have elevated concentrations.

I am at my AWL today if you need to reach me (631.424.2708).

Chuck

-----Angela Carpenter/R2/USEPA/US wrote: -----

> To: Denise Zeno/R2/USEPA/US@EPA, Rebecca Ofrane/R2/USEPA/US@EPA
> From: Angela Carpenter/R2/USEPA/US
> Date: 03/12/2012 07:23PM
> Cc: Mel Hauptman/R2/USEPA/US@EPA, Michael Moltzen/R2/USEPA/US@EPA, Michael Sivak/R2/USEPA/US@EPA, Arlene Anderson/R2/USEPA/US@EPA, Charles Nace/R2/USEPA/US@EPA
> Subject: Re: Cabo Rojo Results - Feb 27-Mar 1sampling
>
> I haven't had a chance to review but are these removal eligible.

Denise Zeno

----- Original Message -----
From: Denise Zeno
Sent: 03/12/2012 06:14 PM EDT
To: Rebecca Ofrane
Cc: Angela Carpenter; Mel Hauptman; Michael Moltzen; Michael Sivak; Arlene Anderson; Charles Nace
Subject: Cabo Rojo Results - Feb 27-Mar 1sampling

We need to know if based on your review of the preliminary data, we have to take action at the pre-school. are the numbers high enough that we have to put in place a vapor mitigation system or not? are the kids exposed? what measures do we need to take to minimize exposure, if any?

based on your experience with other sites, how is ATSDR going to interpret this data? We'll release the data to ATSDR as soon as it gets validated.

We are going back to the field next week. I still have to talk with the NY Regional Headstart Director, AFC from the Human Health Service Agency. They also need to know if the kids are at risk and what are we going to do about it.

please help!

thanks

Denise Zeno
US Environmental Protection Agency
290 Broadway
New York, NY 10007
Tel: 212.637.4319
Fax: 212.637.3083

Charles Nace---03/12/2012 03:48:50 PM---Becky, There was indoor air data for EQP/Headstart (see summary below).

From: Charles Nace/R2/USEPA/US
To: Rebecca Ofrane/R2/USEPA/US@EPA
Cc: Angela Carpenter/R2/USEPA/US@EPA, Denise Zeno/R2/USEPA/US@EPA, Mel Hauptman/R2/USEPA/US@EPA, Michael Moltzen/R2/USEPA/US@EPA, Michael Sivak/R2/USEPA/US@EPA
Date: 03/12/2012 03:48 PM
Subject: Re: Fw: Cabo Rojo - SUMMA cansister prelims

Becky,

There was indoor air data for EQP/Headstart (see summary below).

Building EQP - This building had elevated concentrations of PCE, TCE, and DCE in the subslab during the initial sampling round. The indoor air results from this building indicate that TCE and DCE were all below the detection limits. PCE was detected in six locations (EQP-IA1, EQP-IA2, EQP-IA3, EQP-IA6, EQP-IA7, and EQP-IA8) of the nine sampled locations and in one of the ambient samples (EQP-AMB3). All of the detected concentrations were above the ATSDR screening value of 0.2 ug/m3, but below their

chronic value of 300 ug/m3. EPA also has indoor air screening values of 9.4 ug/m3, which represents a 10-6 cancer risk, and 940 ug/m3, which represents a 10-4 cancer risk. In addition, we have a non-cancer screening value of 41 ug/m3. Three of the samples exceeded the EPA 10-6 screening value and none of the samples exceeded the 10-4 screening value (see attached file). One of the samples EQP-IA8 exceeds the non-cancer screening value of 41 ug/m3 (47.5 ug/m3). There were several other compounds that exceeded screening values: 1,4-dichlorobenzene, benzene, carbon tetrachloride, chloroform, ethylbenzene, and methylene chloride. Of these compounds only 1,2,4-trimethylbenzene, chloroform and methylene chloride exceeded a hazard index of 1 or the 10-4 screening value. I only had subslab results for PCE, TCE, and DCE, so I was unable to determine if the other compounds that were detected are site-related or if they are associated with an indoor source.

Chuck

United States Environmental Protection Agency

Rebecca Ofrane---03/12/2012 03:43:39 PM---Denise, Here is a summary based on these Summa canister results.

From: Rebecca Ofrane/R2/USEPA/US
To: Denise Zeno/R2/USEPA/US@EPA
Cc: Angela Carpenter/R2/USEPA/US@EPA, Charles Nace/R2/USEPA/US@EPA, Mel Hauptman/R2/USEPA/US@EPA, Michael Sivak/R2/USEPA/US@EPA, Michael Moltzen/R2/USEPA/US@EPA
Date: 03/12/2012 03:43 PM
Subject: Re: Fw: Cabo Rojo - SUMMA cansister prelims

Denise,
Here is a summary based on these Summa canister results.

Building S2 had 6 subslab and 2 indoor air samples. Two SS samples had exceedances of TCE and PCE over EPA's screening values, for both cancer and noncancer. However, the indoor air samples had very low detections, with PCE exceeding ATSDR's screening level of 0.2 ug/m3 in one of them by an order of magnitude. Other SS locations had low detections of PCE. The VI Pathway here appears to be incomplete, but SS levels indicate justification for ongoing sampling.
Building DEC had 5 SS, 3 indoor, and 1 ambient sample. One SS sample exceeded screening values for PCE, but none was detected in indoor air. Other SS locations had low detections of PCE, and one had a low detection of TCE. The VI pathway here appears to be incomplete.
Building CRPDC had 3 SS, 2 indoor air, and 1 ambient sample. All three SS samples exceeded EPA's screening values for PCE and TCE. The PCE exceeded the 10-4 screening level (9,400 ug/m3), ranging from 104,000 to 692,000 ug/m3. Indoor air samples had only low detections of PCE, lower than ambient air. It appears that ventilation systems are adequate here, though sampling should continue based on SS levels.
Building EQP/Headstart had 10 SS samples, no indoor air. 9 of the 10 samples had exceedances of PCE over EPA's 10-6 screening level, with one sample location over the

10-4 screening level. TCE also had exceedances, as well as other low levels of VOCs. Also, SS10 had a low detection of PCE that did not exceed screening levels, but Toluene at this location was detected at 131,000 ug/m3. As the VI pathway here is suspected to be complete based on previous sampling, indoor air samples should be confirmed as soon as possible, and EPA should be prepared to take action and install mitigation systems if necessary.

Please let me know if you'd like to discuss or if you have any questions. As Chuck mentioned in his previous assessment, Michael and Angela should weigh in on the results to ensure consistency.

Thanks,
Becky Ofrane
U.S. EPA Region 2 | Superfund Risk Assessment
(212) 637 4302
ofrane.rebecca@epa.gov

-----Denise Zeno/R2/USEPA/US wrote: -----

To: Rebecca Ofrane/R2/USEPA/US@EPA
From: Denise Zeno/R2/USEPA/US
Date: 03/09/2012 04:07PM
Cc: Charles Nace/R2/USEPA/US@EPA, Michael Sivak/R2/USEPA/US@EPA, Angela Carpenter/R2/USEPA/US@EPA, Mel Hauptman/R2/USEPA/US@EPA
Subject: Fw: Cabo Rojo - SUMMA cansister prelims

figures will follow in separate email

-----Forwarded by Denise Zeno/R2/USEPA/US on 03/09/2012 04:06PM -----

==========
To: Arlene Anderson/R2/USEPA/US@EPA, Denise Zeno/R2/USEPA/US@EPA
From: "Cartwright, Michael W" <michael.w.cartwright@lmco.com>
Date: 03/09/2012 01:00PM
Cc: Jeff Catanzarita/ERT/R2/USEPA/US@EPA
Subject: Cabo Rojo - SUMMA cansister prelims
==========
Arlene and Denise,
Attached are the rest of the SUMMA canister prelims for the Cabo Rojo site. Please let me know if you haven't received copies of the maps for this sampling event, and I will provide you with them.
Thanks,
Mike

Michael W. Cartwright
Lockheed Martin - SERAS
2890 Woodbridge Ave.
Edison, NJ 08837
732.321.4284

-----Original Message-----

From: Beauchaine, Benjamin P
Sent: Friday, March 09, 2012 11:15 AM
To: catanzarita.jeff@epa.gov; Cartwright, Michael W
Cc: Depasquale, Geraldine M; Kansal, Vinod C; Killeen, Deborah A; Miller, Dennis A; Raj Singhvi
Subject: Emailing: SERAS-130-DLP-030912.xlsx, WA#0-130 Cabo Rojo TO-15 Prelims 34 Airs 030912.PDF

Preliminary results for the TO-15 analysis of 34 air samples received from the Cabo Rojo Site (WA# 0-130) on 03/05/12.

Ben Beauchaine
Chemist Senior

Lab: (732) 321-4394
Office: (732) 494-4006
Cell: (714) 417-7628

Your message is ready to be sent with the following file or link attachments:

SERAS-130-DLP-030912.xlsx
WA#0-130 Cabo Rojo TO-15 Prelims 34 Airs 030912.PDF

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

[attachment "SERAS-130-DLP-030912.xlsx" removed by Rebecca Ofrane/R2/USEPA/US] [attachment "WA#0-130 Cabo Rojo TO-15 Prelims 34 Airs 030912.PDF" removed by Rebecca Ofrane/R2/USEPA/US][attachment "Cabo 0312 VI sampling.docx" deleted by Charles Nace/R2/USEPA/US]